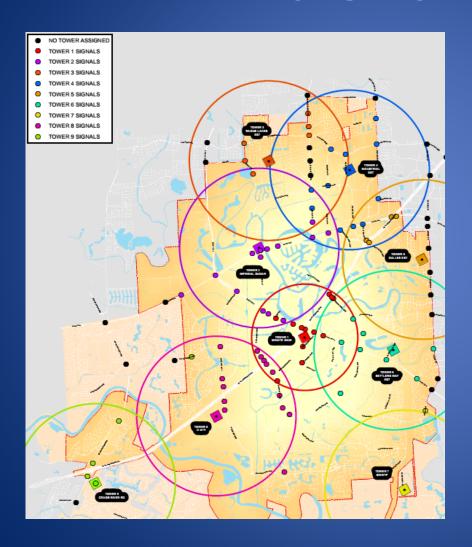
- Fiber & 3 Tier Wireless Network
- Traffic Management Center (TMC)
- Central Management System(CMS)
- ITS Website (new)
 - Support Technology

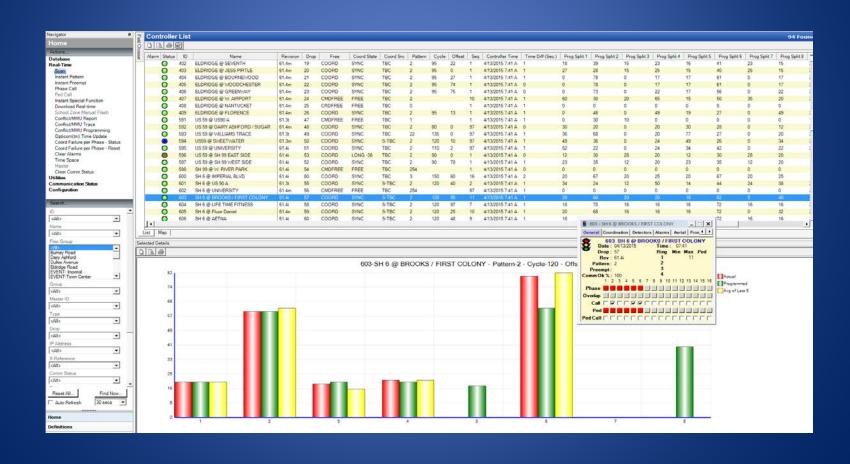


3 Tier WirelessNetwork

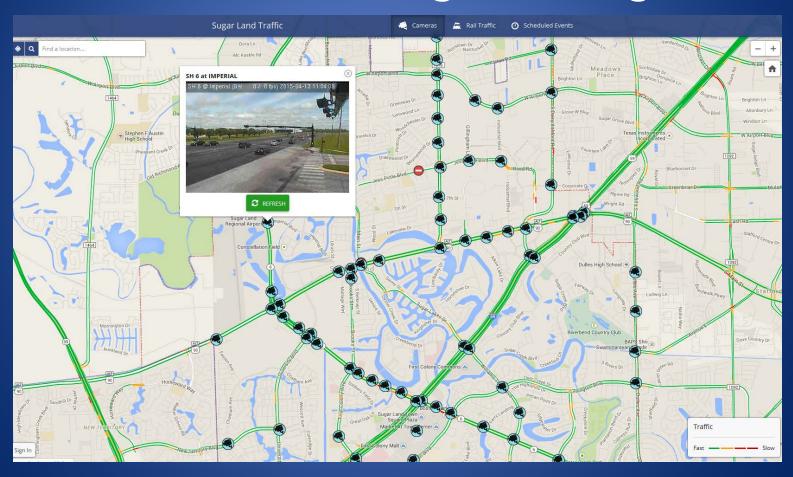
Traffic Management Center



Central Management System



ITS Website (its.sugarlandtx.gov)



2014 ITS Operations Plan

Upgrade System and Intersection Detection



CITY OF SUGAR LAND

ITS
OPERATIONS
PLAN
UPDATE



November 2014

Detection Systems

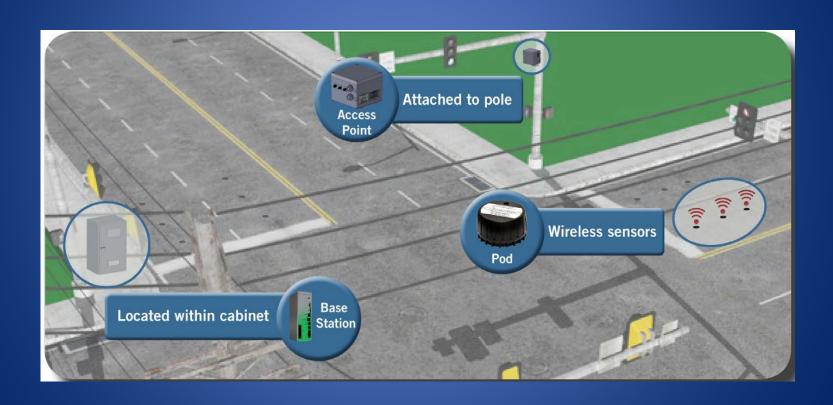
- Video Detection
- Infra-red Detection
- Inductive Loops
- Radar
- Magnetometers



Trafficware's Solution

- Valence Pod Detection System
- Sugar Land Test Site
- What we Learned
- Patent

Valence Pod Detection System



Sugar Land Test Site

- SH6 @ Fluor Daniel
- Installed June 2013
- Expanded Aug 2014
- Cooperative Effort
- Mutually Beneficial



What We Learned

- Confirmed robust performance in all weather
- Detection Pods may also be used for counting, which reduces cost
- Presence accuracy: >98%¹
- Count accuracy: 95%²
 - 1. Study performed Jan 17, 2014
 - 2. Sugar Land Traffic Engineering

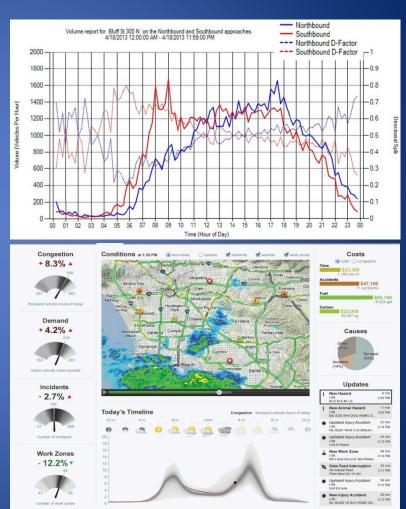
Patents

- #6,662,099 M.I.T., Exclusive License
- #8,855,902 Trafficware, 10/7/2014
- #9,020,742 Trafficware, 4/28/2015

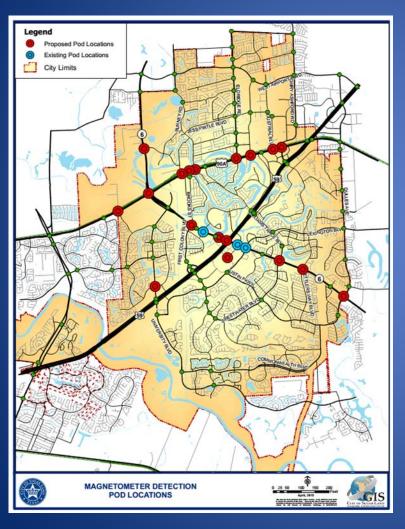


City's Future ITS

- PerformanceMeasures
- ITS WebsiteImprovements
- Design & Planning
- Adaptive System



Location Map



- 3 Existing Locations
- 18 New Key Locations
- US 90 & SH 6

Purchase Overview

- Valence Pod Detection System
- Vendor: Trafficware Group, Inc.
- Sole Source Purchase: Only system meets City Specification
- Funding: CIP TR 1503 CIP
- Purchase Amount: \$500,000

Recommendation

 Authorize the purchase of Trafficware Group, Inc's Valence Pod System in the amount of \$500,000 for FY15 Traffic Signal Detection Upgrade Project.

Questions?